IN THE CLAIMS:

1. (Currently Amended) A method of transmitting time slots in a base station system, the method comprising ~~the steps of~~:

defining ~~(702)~~ certain transmission powers as a normal transmission power;

determining, ~~(704)~~ for each time slot, ~~the~~ a transmission power to be used;

~~characterized by~~ transmitting time slots ~~to be transmitted~~ at a transmission power higher than normal alternately, using at least two different transceivers ~~in order~~ to minimize heat build-up in the transceivers.

2. (Currently Amended) ~~A~~ The method ~~as claimed in~~of claim 1, ~~characterized by~~further comprising placing a control channel in the time slot to be transmitted at a higher transmission power than normal.

3. (Currently Amended) ~~A~~ The method ~~as claimed in~~of claim 1, ~~characterized by~~further comprising placing a packet switched channel in the time slot to be transmitted at a higher transmission power than normal.

4. (Currently Amended) ~~A~~ The method ~~as claimed in~~of claim 3, ~~characterized by~~wherein the packet switched channel being a GPRS packet data traffic channel.

5. (Currently Amended) ~~A~~ The method ~~as claimed in~~of claim 1, ~~characterized by~~further comprising placing a high-speed data channel in the time slot to be transmitted at a higher transmission power than normal.

6. (Currently Amended) ~~A~~ The method ~~as claimed in~~of claim 5, ~~characterized by~~wherein the high-speed data channel ~~being~~ is an EDGE-modulated traffic channel.

7. (Currently Amended) ~~A~~ The method ~~as claimed in~~of claim 5, ~~characterized by~~wherein the high-speed data channel ~~being~~ is an EDGE-modulated GPRS packet data traffic channel.

8. (Currently Amended) ~~A~~ The method ~~as claimed in~~of claim 1, ~~characterized by~~further comprising transmitting the time slots ~~to be transmitted~~ at a higher transmission power than normal alternately, using at least two different antennas.

9. (Currently Amended) ~~A~~ The method ~~as claimed in~~of claim 1, ~~characterized by~~further comprising transmitting time slots ~~to be transmitted~~ at a normal transmission power using frequency hopping.

10. (Currently Amended) A base station comprising

at least two transceivers ~~(114)~~;

a control part ~~(118, 124)~~ for controlling the operation of the transceivers ~~(114)~~;

a switching field ~~(120)~~ for connecting time slots to the transceivers ~~(114)~~;

certain transmission powers being defined as a normal transmission power in the control part ~~(118, 124)~~;

the control part ~~(118, 124)~~ being arranged to determine for each time slot a transmission power to be used~~.~~,

~~characterized in that~~wherein the control part ~~(118, 124)~~ is arranged to direct the switching field ~~(120)~~ to ~~place~~ transmit time slots ~~to be transmitted~~ at a transmission power higher than normal ~~to be transmitted~~ alternately, using two different transceivers ~~(114) in order~~ to minimize heat build-up in the transceivers ~~(114)~~.

11. (Currently Amended) ~~A~~ The base station system ~~as claimed in~~of claim 10, ~~characterized in that~~wherein the control part ~~(118, 124)~~ is arranged to place a control channel in the time slot ~~to be transmitted~~ at a higher transmission power than normal.

12. (Currently Amended) ~~A~~ The base station system ~~as claimed in~~of claim 10, ~~characterized in that~~wherein the control part ~~(118, 124)~~ is arranged to place a packet switched channel in the time slot ~~to be transmitted~~ at a higher transmission power than normal.

13. (Currently Amended) ~~A~~ The base station system ~~as claimed in~~of claim 12, ~~characterized in that~~wherein the packet switched channel is a GPRS packet data traffic channel.

14. (Currently Amended) ~~A~~ The base station system ~~as claimed in~~of claim 10, ~~characterized in that~~wherein the control part ~~(118, 124)~~ is arranged to place a high-speed data channel in the time slot ~~to be transmitted~~ at a higher transmission power than normal.

15. (Currently Amended) ~~A~~ The base station system ~~as claimed in~~ of claim 14, ~~characterized in that~~ wherein the high-speed data channel is an EDGE-modulated traffic channel.

16. (Currently Amended) ~~A~~ The base station system ~~as claimed in~~ of claim 14, ~~characterized in that~~ wherein the high-speed data channel is an EDGE-modulated GPRS packet data traffic channel.

17. (Currently Amended) ~~A~~ The base station system ~~as claimed~~ of in claim 10, ~~characterized in that~~ wherein the base station system is arranged to transmit the time slots ~~to be transmitted~~ at a higher transmission power than normal alternately, using at least two different antennas ~~(112A, 112B)~~.

18. (Currently Amended) ~~A~~ The base station system ~~as claimed in~~ of claim 10, ~~characterized in that~~ wherein the base station system is arranged to transmit time slots ~~to be transmitted~~ at a normal transmission power using frequency hopping.